

0590  
0718

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/992,430A  
Source: PIPE  
Date Processed by STIC: 7/24/02

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

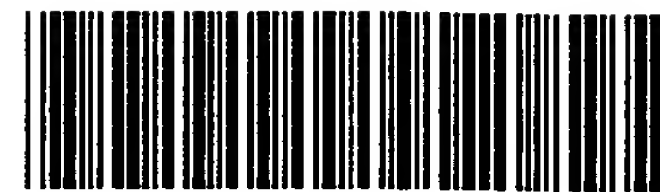
**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



**Does Not Comply**  
**Corrected Diskette Needed**

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/992,430A

DATE: 07/24/2002  
TIME: 11:35:21

*See p. 6 for  
Explanation of errors.*

Input Set : A:\00-1237A.ST25.txt  
Output Set: N:\CRF3\07242002\I992430A.raw

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3 <110> APPLICANT: Rajgarhia, Vineet
5 <120> TITLE OF INVENTION: Methods and materials for synthesis of organic products
7 <130> FILE REFERENCE: 00-1237-A
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/992,430A
C--> 10 <141> CURRENT FILING DATE: 2001-11-22
12 <150> PRIOR APPLICATION NUMBER: 60/252,541
13 <151> PRIOR FILING DATE: 2000-11-22
15 <160> NUMBER OF SEQ ID NOS: 65
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 92
21 <212> TYPE: DNA
22 <213> ORGANISM: artificial sequence - multiple cloning site
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W--> 24 <223> OTHER INFORMATION:
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33 <213> ORGANISM: artificial sequence - multiple cloning site
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38 gcagggatcc cccggggaat tcaagcttgg g                                     91
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42 <211> LENGTH: 31
43 <212> TYPE: DNA
44 <213> ORGANISM: Lactobacillus helveticus
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51 <211> LENGTH: 32
52 <212> TYPE: DNA
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59 <210> SEQ ID NO: 5
60 <211> LENGTH: 37
61 <212> TYPE: DNA
62 <213> ORGANISM: Pediococcus acidilactici

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*belongs in <223>*

## RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/09/992,430A

TIME: 11:35:21

Input Set : A:\00-1237A.ST25.txt

Output Set: N:\CRF3\07242002\I992430A.raw

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69 <211> LENGTH: 33
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79 <212> TYPE: DNA
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100 <211> LENGTH: 1736
101 <212> TYPE: DNA
102 <213> ORGANISM: kanamycin resistance gene
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109 gtcagcagca tagggaaaca cggcttttcc taccaaactc aaggaattat caaactctgc 180
111 aacacttgcg tatgcaggta gcaagggaaa tgtcatactt gaagtcggac agtgagtgtg 240
113 gtcttgagaa attctgaagc cgtattttta ttatcagtga gtcagtcac aggagatcct 300
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121 ttgctttgcc acggaacggt ctgcgttgtc gggaagatgc gtgatctgat ccttcaactc 540
123 agcaaaagtt cgatttatcc aacaaagccg ccgtcccgtc aagtcagcgt aatgctctgc 600
125 cagtgttaca accaattaac caattctgat tagaaaaact catcgagcat caaatgaaac 660
127 tgcaatttat tcatatcagg attatcaata ccatattttt gaaaaagccg tttctgtaat 720
129 gaaggagaaa actcaccgag gcagttccat aggatggcaa gatcctggta tcggtctgcg 780
131 attccgactc gtccaacatc aatacaacct ttaatttccc ctcgtaaaaa ataaggttat 840
133 caagtgagaa atcaccatga gtgacgactg aatccggtga gaatggcaaa agcttatgca 900
135 ttctttccag acttggtcaa caggccagcc attacgctcg tcatcaaaat cactcgcac 960
137 aaccaaacccg ttattcatte gtgattgcgc ctgagcgaga cgaaatacgc gatcgctgtt 1020
139 aaaaggacaa ttacaaacag gaatcgaatg caaccggcgc aggaacactg ccagcgcac 1080
141 aacaatattt tcacctgaat caggatattc ttctaatacc tggaatgctg ttttcccggg 1140
143 gatcgagctg gtgagtaacc atgcatcatc aggagtacgg ataaaatgct tgatggtcgg 1200
145 aagaggcata aattccgtca gccagtttag tctgaccatc tcatctgtaa catcattggc 1260
147 aacgctacct ttgcatggtt tcagaaacaa ctctggcgca tcgggcttcc catacaatcg 1320

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## RAW SEQUENCE LISTING

DATE: 07/24/2002

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TIME: 11:35:21

Input Set : A:\00-1237A.ST25.txt

Output Set: N:\CRF3\07242002\I992430A.raw

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149 atagattgtc gcacctgatt gcccgacatt atcgcgagcc catttatacc catataaatc 1380
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153 cataacaccc ctgtatttac tgtttatgta agcagacagt tttattgttc atgatgatat 1500
155 atttttatct tgtgcaatgt aacatcagag attttgagac acaacgtggc tttccccccc 1560
157 cccctgcag gtcggcatca ccggcgccac aggtgcgggt gctggcgcc atatcgccga 1620
159 catcaccgat ggggaagatc gggctcgcca cttcgggctc atgagcgctt gtttcggcgt 1680
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165 <211> LENGTH: 372
166 <212> TYPE: DNA
167 <213> ORGANISM: Kluyveromyces marxianus
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172 tcaaggtcag aaacgccact ttcccagggtg tccaaatgaa gttcgtcttg caaaagttgt 120
174 tgaccaaggt caaggatgct gctaagggtt acaagccagt tccagttcct cagctccaa 180
176 gagacaacaa gccagttgct gactctactc cattgaagca agaatgggtc tggactcaag 240
178 tcggttaagtt cctacaagaa ggtgatgttg ttctaactga aaccgggtacc tccgctttcg 300
180 gtatcaacca aaccacttc ccaaagatga cctacgggtat ctccaagtc ttgtgggggt 360
182 ccattggttt ca 372
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 747
187 <212> TYPE: DNA
188 <213> ORGANISM: Kluyveromyces thermotolerans
190 <400> SEQUENCE: 11
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193 aggtcgaggg tatgagatgg gccggtaact gtaacgagtt gaacgcttct tacgctgccg 120
195 acgcttacgc cagaatcaag ggtatgtcct gtttgatcac caccttcggt gtcggtgagt 180
197 tgtccgcttt gaacgggtat gccggttctt acgctgagca cgtcgggtgc ttgcacattg 240
199 tcggtgtccc atccgtctcc gcccaggcca agcagctatt gttgcaccac accttgggta 300
201 acggtgactt cactgtcttc cacagaatgt ccgccaacat ctctgagacc actgctatga 360
203 tcaactgatct agctaccgcc ccatctgaga tcgacagatg tatcagaacc acctacatta 420
205 gacagagacc tgtctacttg ggtttgccat ctaacttcgt tgaccagatg gtcccagcct 480
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209 aggtcatctc tactttgttg gagatgatca aggacgctaa gaaccagtc atcttggctg 600
211 acgcttgccg ttccagacac gatgtcaagg ctgagaccaa gaagttgatt gacatcactc 660
213 agttcccatc ttctggtacc ccaatgggta agggttccat tgacgagaag caccgaagat 720
215 tcggtggtgt ctacgtcggg accttgt 747
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219 <211> LENGTH: 1738
220 <212> TYPE: DNA
221 <213> ORGANISM: kanamycin resistance gene fragment
223 <400> SEQUENCE: 12
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226 aacttgacac ttaacttgaa gctcagtcga ttgagtgaac ttgatcaggt tgtgcagctg 120
228 gtcagcagca tagggaaaca cggcttttcc taccaaactc aaggaattat caaactctgc 180
230 aacacttgcg tatgcaggta gcaagggaaa tgtcatactt gaagtcggac agtgagtgtg 240
232 gtcttgagaa attctgaagc cgtattttta ttatcagtga gtcagtcac aggagatcct 300
234 ctacgccgga cgcacgtgg ccgacctgca gggggggggg gggcgctgag gtctgcctcg 360
236 tgaagaaggt gttgctgact cataccaggc ctgaatcgcc ccatcatcca gccagaaagt 420

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/992,430A

DATE: 07/24/2002

TIME: 11:35:21

Input Set : A:\00-1237A.ST25.txt

Output Set: N:\CRF3\07242002\I992430A.raw

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238 gagggagcca cggttgatga gagctttgtt gtaggtggac cagttggtga ttttgaactt 480
240 ttgctttgcc acggaacggt ctgcgttgtc gggaagatgc gtgatctgat ctttcaactc 540
242 agcaaaagtt cgattttattc aacaaagccg ccgtcccgtc aagtcagcgt aatgctctgc 600
244 cagtgttaca accaattaac caattctgat tagaaaaact catcgagcat caaatgaaac 660
246 tgcaatttat tcatatcagg attatcaata ccatattttt gaaaaagccg tttctgtaat 720
248 gaaggagaaa actcaccgag gcagttccat aggatggcaa gatcctggta tcggtctgcg 780
250 attccgactc gtccaacatc aatacaacct attaatctcc cctcgtcaaa aataaggtta 840
252 tcaagtgaga aatcaccatg agtgacgact gaatccggtg agaatggcaa aagcttatgc 900
254 atttctttcc agacttgttc aacaggccag ccattacgct cgtcatcaaa atcactcgca 960
256 tcaaccaaac cgttattcat tcgtgattgc gcctgagcga gacgaaatac gcgatcgctg 1020
258 ttaaaaggac aattacaaac aggaatcgaa tgcaaccggc gcaggaacac tgccagcgca 1080
260 tcaacaatat tttcacctga atcaggatat tcttctaata cctggaatgc tgttttcccg 1140
262 gggatcgtag tggtagtaaa ccatgcatca tcaggagtac ggataaaatg cttgatggtc 1200
264 ggaagaggca taaattccgt cagccagttt agtctgacca tctcatctgt aacatcattg 1260
266 gcaacgctac ctttgccatg tttcagaaac aactctggcg catcgggctt cccatacaat 1320
268 cgatagattg tcgcacctga ttgcccagca ttatcgcgag cccatttata cccatataaa 1380
270 tcagcatcca tgttggaatt taatcgcggc ctcgagcaag acgtttcccg ttgaatatgg 1440
272 ctcataacac cccttgattt actgtttatg taagcagaca gttttattgt tcatgatgat 1500
274 atatttttat cttgtgcaat gtaacatcag agattttgag acacaacgtg gctttccccc 1560
276 cccccctgc aggtcggcat caccggcgcc acaggtgcgg ttgctggcgc ctatatcgcc 1620
278 gacatcaccg atggggaaga tcgggctcgc cacttcgggc tcatgagcgc ttgtttcggc 1680
280 gtgggtatgg tggcaggccc cgtggccggg ggactgttgg gcgccatctc cttgcatg 1738

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283 &lt;210&gt; SEQ ID NO: 13

284 &lt;211&gt; LENGTH: 17

285 &lt;212&gt; TYPE: DNA

286 &lt;213&gt; ORGANISM: artificial sequence - degenerate amplification primers

W--&gt; 288 &lt;220&gt; FEATURE:

W--&gt; 288 &lt;223&gt; OTHER INFORMATION:

288 &lt;400&gt; SEQUENCE: 13

289 gtbatygyt chggtac

17

292 &lt;210&gt; SEQ ID NO: 14

293 &lt;211&gt; LENGTH: 17

294 &lt;212&gt; TYPE: DNA

295 &lt;213&gt; ORGANISM: artificial sequence - degenerate amplification primers

W--&gt; 297 &lt;220&gt; FEATURE:

W--&gt; 297 &lt;223&gt; OTHER INFORMATION:

297 &lt;400&gt; SEQUENCE: 14

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17

301 &lt;210&gt; SEQ ID NO: 15

302 &lt;211&gt; LENGTH: 22

303 &lt;212&gt; TYPE: DNA

304 &lt;213&gt; ORGANISM: artificial sequence - amplification primers

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W--&gt; 306 &lt;223&gt; OTHER INFORMATION:

306 &lt;400&gt; SEQUENCE: 15

307 gtacagttct ggatactgct cg

22

310 &lt;210&gt; SEQ ID NO: 16

311 &lt;211&gt; LENGTH: 18

312 &lt;212&gt; TYPE: DNA



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/992,430A

DATE: 07/24/2002

TIME: 11:35:21

Input Set : A:\00-1237A.ST25.txt

Output Set: N:\CRF3\07242002\I992430A.raw

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W--> 315 <223> OTHER INFORMATION: ←

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319 <210> SEQ ID NO: 17

320 <211> LENGTH: 19

321 <212> TYPE: DNA

322 <213> ORGANISM: Kluyveromyces thermotolerans

324 <400> SEQUENCE: 17

325 gtgatgtcgg cgatatagg 19

328 <210> SEQ ID NO: 18

329 <211> LENGTH: 21

330 <212> TYPE: DNA

331 <213> ORGANISM: Kluyveromyces thermotolerans

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338 <211> LENGTH: 21

339 <212> TYPE: DNA

340 <213> ORGANISM: Kluyveromyces thermotolerans

342 <400> SEQUENCE: 19

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346 <210> SEQ ID NO: 20

347 <211> LENGTH: 20

348 <212> TYPE: DNA

349 <213> ORGANISM: Kluyveromyces thermotolerans

351 <400> SEQUENCE: 20

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356 <211> LENGTH: 972

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358 <213> ORGANISM: Kluyveromyces thermotolerans

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365 gtttccgaga ttgtccttat cgacgtgaac aaagacaaag cagagggatga aagcatggac 180

367 ttaaaccacg cagcaccttc aaatacaagg tctcgagcgg gtgattatcc tgactgcgct 240

369 ggcgcggcca ttgttattgt cacatgtggg attaaccaaa aaaatggaca aacaaggatg 300

371 gatcttgctg caaaaaatgc caacattatg ctggaaatca tccccaatgt tgccaaatat 360

373 gctcctgata ccatactgct tattgccacg aatcctgtcg atgttttgac ctatattagc 420

375 tataaggcgt cagggtttcc actaagcaga gttatcggct caggtagagt tctggatact 480

377 gctcgtttta aatacatcct cggagagcac ttcaagatct catcggacag catcgatgcc 540

379 tgtgtaattg gagaacatgg tgattcgggt gtgcctgtct ggtctcttac caacatcgac 600

381 ggcataaagc tccgggatta ctgcgaaaaa gccaaaccaca tatttgatca gaatgcgttc 660

383 catagaatct ttgagcaaac gcgagacgct gcttacgata tcatcaagcg caaaggctat 720

385 acttcatatg gaatcgcagc gggattactt cgcatagtaa aggcgatttt agaggatata 780

387 ggatccacac ttacagtttc aaccgttggt gattattttg gggttgaaca aattgctata 840

389 agcgtcccta ccaaactcaa taaaagtggg gctcatcaag tggctgaact ttcactcgat 900

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/992,430A

DATE: 07/24/2002  
TIME: 11:35:22

Input Set : A:\00-1237A.ST25.txt  
Output Set: N:\CRF3\07242002\I992430A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:55; N Pos. 21,33

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:1,2,13,14,15,16,23,24,25,26,27,28

## VERIFICATION SUMMARY

DATE: 07/24/2002

PATENT APPLICATION: US/09/992,430A

TIME: 11:35:22

Input Set : A:\00-1237A.ST25.txt

Output Set: N:\CRF3\07242002\I992430A.raw

L:9 M:270 C: Current Application Number differs, Wrong Format  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:24 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:24 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:35 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:35 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:537 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0